

# FOLIO

## Research is Vital: Kaplan's Address to Fall Convocation

*On 21 November, J. Gordin Kaplan, Vice-President (Research), delivered the Convocation Address to graduating students. What follows is that address.*

Research and scholarship in the University are sometimes thought of by the public as inessential, if harmless, activities that professors busy themselves with when they are not occupied in the real business of the University: that is, teaching young scholars about the world, or more important, preparing the former to live in the latter. One cannot deny the importance of teaching and of professional training in the work of the University; they are two of the most vital functions that it performs. But they are no more vital to society than the research and scholarship carried out within the University; these activities are also central to her existence and not peripheral avocations.

Some of you may regard this as self-evident and not worth saying. However, consider that, in the financing of the universities of this country, the formulae that determine the funding are all essentially based on the number of students of various kinds enrolled; a great research university or a minor one with the same number of students would both receive the same support except insofar as their mix of students might affect this to some degree.

I want to give you one or two examples of the profound impact that Canadian university research has had on society and the quality



of human life. I could cite hundreds from all fields of university research: Engineering, Social Sciences, Law, Literature. . . . My examples come from Medicine and Agriculture.

One hundred years ago, at the International Congress of Medicine held in August, 1881, in St. James Hall, London, the great physiologist and evolutionist

Thomas Henry Huxley gave the general address at the closing session. His concluding remarks contained the following sentences: "The search for the explanation of diseased states in modified cell life (*J.G.K.: i.e., modified as in cancer*); the discovery of the important part played by parasitic organisms in the etiology of disease (*J.G.K.: bacterial*

*infection*); the elucidation of the actions of medicaments by the methods and data of experimental physiology—appear to me to be the greatest steps that have ever been made toward the establishment of medicine on a scientific basis. I need hardly say they could not have been made except for the advance of biology. . . . There can be no doubt that the future of pathology and of therapeutics and therefore that of practical medicine depend upon the extent to which those who occupy themselves with these subjects are trained in the methods and impregnated with the fundamental truths of biology."

Application of those "fundamental truths of biology" to medical practice has resulted in the viral elimination of many of the diseases that were the great killers and plagues of the past; indeed, the 'white plague' as tuberculosis used to be called, is one of these. Most of today's graduates will not know this, but their parents might not have forgotten that major cities in the first half of this century had large and busy TB and infectious diseases hospitals; almost all of these have disappeared along with diphtheria and tuberculosis and others of the great killers that have been brought under control, due to the application to therapeutics and public health of research done in the fields of Microbiology, Pharmacology, Chemistry and Biochemistry, among others.

One of the most dreaded diseases of the past has essentially disappeared entirely, other than

as a medical curiosity that surfaces from time to time among people who, for one reason or another, refuse vaccination for themselves and their children: this is poliomyelitis, or, as it used more descriptively to be called, infantile paralysis. In Halifax, Nova Scotia, where my family and I lived in the 'fifties and 'sixties, there was, in addition to a large TB hospital and an infectious diseases hospital, a polio clinic that had a building to itself adjacent to the major teaching hospital of the region; this clinic was often filled to overflowing. One of these unhappy times was the summer of 1951 when an epidemic of polio struck Nova Scotia. The province, with a population of 500,000, had about 500 reported cases of polio, that is, one per thousand of population, many of whom died or were permanently disabled. I was myself struck down during this epidemic so that what will seem to many of you as a dry piece of ancient history has an immediacy and a poignancy for me that it of necessity will lack for those who have never had

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# FOLIO

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experience of this horrible disease. For it is indeed unpleasant to find oneself almost totally paralyzed from the neck down.

Most of you will have heard of the development of the first successful anti-polio vaccine by Dr. Jonas Salk; this underwent trials in the mid-fifties in Canada, among other places. I remember this because my daughter, then in elementary school, was one of the guinea pigs in these trials. The successful vaccine was prepared by taking large quantities of pure polio virus, killing them with formaldehyde, and then injecting the killed virus into the human population at risk in order to provide subsequent immunity to the live virus.

What many of you will not know is the critical role played in this story by a team of Canadian scientists. This was a small group at the Connaught Laboratories of the University of Toronto in the late 'forties and 'fifties. The group was headed by Dr. Ray Parker and included Dr. Joe Morgan and Dr. Helen Morton. In the course of their studies on the growth of mammalian cells in tissue culture, they developed a new liquid medium in which certain mammalian cell types would grow that would not in other media. They called their new culture liquid "Medium 199" and it is still widely used and commercially available. The first successful method of propagating polio virus in the large amounts necessary for a vaccination program was published in the early 1950s by Dr. John Enders and his colleagues at the Harvard Medical School. They found that cells isolated from a monkey and grown in Medium 199 could well support the growth of large amounts of polio virus that could then be purified from the culture. Although it was Salk who thereafter prepared the vaccine from virus thus grown, the Nobel prize for Physiology or Medicine was awarded to Enders and his colleagues for their great achievement in growing the virus. And in that achievement the work of Parker, Morgan, and Morton was a vital element. Had Canadian

university research never achieved more than this one contribution—let's forget about insulin, cobalt-60 and everything else—this alone, by virtue of its economic benefits in eliminating the acute care and follow-up costs of poliomyelitis, would have recompensed the Canadian taxpayers for their investment in university research.

Let me add a footnote to my story of the work of Parker, Morgan, and Morton. When they worked to perfect Medium 199, they had no idea that their research would ultimately prove vital—or even relevant—to the prevention of poliomyelitis. It is worth reflecting on this. Were the government of that day to have decided to concentrate its resources on a program of "targeted" research to deal specifically with polio, Parker would have been denied funds for the irrelevant work on cell growth that he was pursuing; the availability of these "targeted" funds might have persuaded him and others to spend their time perfecting the Sister Kenny hot pack treatment or inventing an improved version of the iron lung.

I wish to say what must be only a word about agricultural research. This summer, driving across Canada, I was struck by the vast acreage devoted on the prairies to the cultivation of canola (rape-seed). Yet this plant some years ago was found to contain large quantities of two toxic compounds that made the oil unsuitable for human or animal nutrition. Researchers in the universities and in government laboratories, using chemical and genetic methods worked out in other research laboratories, have reduced the levels of these toxic agents to the point where canola oil is a desirable component of animal and human diets. We now note in the press that unless growers plant even more canola that there will be a shortage of the seeds due to growing demand for its oil. I have repeatedly observed that farmers are very aware of the concrete contributions to our society of basic research; they have good reason to be.

If, in the past, the University has played a vital role in extending to medicine and agriculture what Huxley called "the fundamental truths of Biology," how much more true this will be in the future! An amazing development in recent years has been the emergence of an entirely new technology whose very purpose is the application of Biology to Medicine, Agriculture and Industry: this has been called Biotechnology. The largest Biotechnology companies have been founded by university scientists and utilize the same pool of skilled researchers as do the universities; these research people move back and forth between university and Biotechnology laboratories. Biotechnology could not have emerged without the university and cannot survive without it either. In the next few days you will read of the establishment in Edmonton of a new Biotechnology enterprise, a joint venture between private enterprise and a crown corporation. The enterprise will be located close to our Medical Sciences Building to maximize interchange and transfer of ideas and personnel with University scientists. Edmonton was selected as the preferred site for this bold venture precisely because of the presence in our Biochemistry Department of a world-class group of scientists in the field of Protein and Enzyme Chemistry.

What exactly will this new enterprise be trying to achieve?

Let me answer this question in a curious way. In 1979, I wrote a review of a widely-read book that described the origins of the new science of Molecular Biology. At the end of my review, I attempted a glimpse into the dim future. I wrote: "And can we not foresee a sequel (to this book) describing achievements as yet difficult to imagine but which will probably be realized before the advent of the twenty-first century: for example, the design of a new hormone or enzyme to carry out a particular function and the synthesis of a corresponding gene that will, when inserted into bacteria or yeast, cause these organisms to produce large

quantities of the desired product?" (*Queen's Quarterly* 1980). It is precisely this piece of science fiction that the new biotechnology project to be founded in Edmonton will try to achieve! Thus may yesterday's science fiction become tomorrow's reality. And so much for my cloudy crystal ball: a joint industrial venture is to begin to try immediately what I anticipated

might be attempted by the 21st century.

The new technology not only stands on the shoulders of basic university research but must be done in close association with it. The active cooperation with and participation in industrial research ventures may be something new for the University but that is not reason to fear it. It is a good thing that a society like ours, that

has given generous support to its universities, should receive direct and tangible benefits from them, in this case in the form of new, high technology industries. Nor is this incompatible with our major task—and let us never forget that this is our major task—the generation of new knowledge about the nature of human kind and the universe in which we live and the education of our brightest

young people to the highest standard that they are capable of attaining.

I congratulate today's graduates and wish you a long and healthy life filled with work that will bring you satisfaction and fulfillment and that will result in the betterment of your communities and your country. And may you and your country know a world at peace. □

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## "Targeted" Research Gains Prominence— What Lies In Store for the Rest of Us?

*The following is a letter sent to members of the Canadian Historical Association in late October by the CHA President, John Kendle. It is reprinted here, accompanying Vice-President Kaplan's Convocation Address, because it echoes concerns raised by Dr. Kaplan.*

**John Kendle**

I have been asked by the CHA Council to bring to your attention recent developments at the levels of Cabinet and the Social Science and Humanities Research Council of Canada (SSHRC) which have grave implications for the humanities and social sciences in Canada.

During the summer of 1981, the SSHRC was "strongly advised" by its minister, Francis Fox, to redesign its five-year plan to make it more acceptable to the Social Development Committee of Cabinet to which the SSHRC has to appeal for funding. It was made quite clear that there had to be a much stronger emphasis on Canadian Studies if SSHRC wished its budget to be approved. As a result, SSHRC has submitted a new five-year plan requesting a total of \$72,751,000 by 1985-86 (compared to the original request of \$53,855,000) and has undertaken an audacious reshuffling of funds and terminology. As a result, the entire increase of \$19 million goes to Canadian Studies and thus to directed research. By 1985-86, at

least 51 percent of SSHRC monies will be devoted to Canadian Studies while support for "General Research" which includes independent, or "untied," research in non-Canadian areas falls to 13.9 percent.

The CHA Council is shocked and alarmed by this drastic reallocation of funding and by the dramatic shift in policy from one emphasizing independent research to one emphasizing directed research. Not only does the change offend the fundamental principle of Humanities and Social Science research—independent critical enquiry—but it will have serious consequences for the research community in Canada. Non-Canadian specialists will have an increasingly difficult time obtaining research monies while only those Canadianists willing to conform to "strategic themes" will be assured of ready funding.

The CHA is not, of course, against Canadian Studies. But the Canadianists among us are not persuaded that such massive changes are necessary to accomplish their goals. Moreover, the CHA represents all historians in Canada, not just historians of Canada, and we cannot stand idly by, passing no comment, while funds continue to be directed so exclusively to Canadian Studies. To undermine the activities of historians who have contributed, and who continue to contribute, with distinction to international scholarship is highly

irresponsible and potentially dangerous for the breadth of education and understanding in this country.

Furthermore, historians of Canada will not necessarily be well served by being restricted to designated themes. The work of such noted historians as Creighton, Morton, and Brunet was, and remains, impressive and perceptive precisely because it was independent. Free enquiry and an uninhibited research and critical stance are fundamental to the health of not only our profession but of the nation.

An independent but by no means less important effect of the proposed reallocation of funds is a dramatic decrease in support for (a) doctoral and postdoctoral research in non-Canadian fields; (b) scholarly publications; (c) conferences; and (d) the Learned Societies. The funding for these remains unchanged in the new five-year plan but proportionately the monies decline considerably to a relatively small percentage of the whole.

As you can see the implications are gloomy. When one considers the proposal, under the five-year plan, to emphasize post-graduate training in the field of Canadian Studies the future appears even bleaker. By the 1990s we will presumably face the inexorable disappearance of non-Canadian areas of study in the Humanities and Social Sciences. Universities and colleges

will be staffed only with Canadianists and Canadian Studies will be the only field capable of being taught. This state of affairs can only fill with dismay those of us who believe fundamentally in an open society based on free and critical enquiry directed not only at the Canadian experience but at the human experience generally.

We urge you to write immediately to your Member of Parliament and to the members of the Social Development Committee expressing your dismay and regret at such short-sighted policies which will serve only to make Canada a narrower and more parochial society. □\*

\*The names and addresses of the members of the Social Development Committee are available from faculty in the Department of History or from the Editor of Folio.

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## Students With Disabilities

- Is the University sufficiently accessible to you?
- Do you require occasional assistance?
- Are you interested in knowing what services are available to you?

The Office of Student Affairs offers information and assistance. Telephone 432-4145 or come to 225 Athabasca Hall. □

## Sandra Faye Guberman Memorial Library

A room with personality was how The Sandra Faye Guberman Memorial Library was regarded by people present at the official opening of the facility on 26 November. The small but well appointed library in 3-136 Fine Arts Centre is seen as a lasting tribute to Miss Guberman, one of the first graduates of the Department of Drama's BFA program. She died of an aneurysm in 1978 at the age of twenty-seven.

Contributions by her parents, Mr. and Mrs. Wally Guberman of Winnipeg; classmates, faculty and friends; and the proceeds from a number of productions resulted in the establishment of the library by the Department.

At the opening, Department Chairman J. McTeague said the day was one of both remembrance and celebration and that the library was dedicated to the art that Miss Guberman studied. (In addition to the degree taken here, she earned an MA at Brandeis University and worked as a professional actress as well as a teacher of speech.)

Tom Peacocke, one of her principal teachers, referred to Miss Guberman's growing and absolute dedication to her art and her happy faculty of being able to stimulate everyone around her to love life a little bit more. "She



(Left to right) J. McTeague, Mr. and Mrs. W. Guberman and daughter Marla, W. Gill, and A. Hawkins savor the opening of The Sarah Faye Guberman Memorial Library.

exemplified the absolute best of what our young artists strive for," he said.

Once the key to The Sandra Faye Guberman Memorial Library was turned by Mrs. Guberman, the guests found themselves in good company—the works of a number of major Canadian play-

wrights. One advantage of the library is that new Canadian plays will be available to drama students in short order whereas they take several months to get circulated in Rutherford Library. The Guberman Library also contains an impressive collection of slides, various books and

scripts donated by friends and associates of Miss Guberman, historical material on the Department, and xerox and microfiche equipment.

Effective June 1982, Wayne Gill will be in charge of The Sandra Faye Guberman Memorial Library. □

## New Vice-President (Planning and Development) for University of Alberta Hospitals

The Chairman of the University Hospitals Board, Peter M. Owen, QC, has announced that Gordon Pincock is appointed Vice-President (Planning and Development) of The University of Alberta Hospitals. As the Vice-President (Planning and Development), he will be responsible for the planning and commissioning of the Walter C. Mackenzie Health Sciences Centre, the Physical Plant Department, the Biomedical Technology

Department, and Hospitals Security.

The Walter C. Mackenzie Health Sciences Centre is an 850-bed "state of the art" medical facility which, when completed in 1986, will form the major facility of The University of Alberta Hospitals, a large portion of the existing facilities being slated for demolition to coincide with the completion dates. Phase One of the Mac-

kenzie Centre will be opened for general surgery, renal dialysis, rheumatology and ophthalmology patients early in 1982. The University Hospitals will continue as a 1,300-bed major teaching and referral hospital in northern Alberta.

After receiving his Master's Degree in Health Services Administration from The University of Alberta, Mr. Pincock joined The University of Alberta

Hospitals on 1 July 1975 as Administrative Officer—a joint appointment between The University of Alberta Hospitals and the Faculty of Medicine of The University of Alberta.

Prior to his most recent appointment, Mr. Pincock had been appointed as Director of Commissioning on 1 March 1979 and as Director of Planning on 1 July 1980. Mr. Pincock takes up his duties immediately. □





W.H. Johns signs another copy of *A History of The University of Alberta 1908-1969*. The autograph session took place in the SUB Bookstore on 27 November.

## Gateway Readers Dealt Low Blow

Readers, gentle and otherwise, of *The Gateway* can be forgiven for crying "police brutality" after the issue of 19 November was seized by City of Edmonton Police and Fire Department investigators. After all, they were deprived of their favorite newspaper for a full three days. Virtually all of the devotees experienced severe withdrawal pains and University Health Service personnel were hard pressed to carry out their ministrations. In fact, the size of the lineups and the absence of an ultra wide angle lens prevented *Folio*, from taking a photograph to accompany this reportage.

A measure of normalcy was restored to the lounges and reading areas across campus when, on 23 November, the papers were returned without so much as a single fish stain on them. It may be just the calm before the storm however, as the Students' Union has decided to take legal action against the City and the University. Maybe you can fight city hall (one doesn't know about the

University) if you have a strong enough case. Even if the Union doesn't win (perish the thought), *Gateway* stories on the infighting are bound to work wonders on the health of the readership. □

## HSAVE: New Programs

The following is a list of new programs now available in the Health Sciences Audiovisual Education division's audiovisual library. The library is located in 2-54 Medical Sciences Building. (432-3096). All the programs listed are in the form of video-cassettes produced by the Northern Virginia Educational Telecommunications Association in its "Footsteps" series. Each program is twenty-nine minutes long. The catalogue numbers are ordered consecutively from CM400 to CM 417.

Christinitas

## people

From 9 to 15 November, President Horowitz visited universities, research institutes and government offices in Israel as a member of an Alberta Mission lead by the Hon. Stewart A. McCrae, Minister of Government Services. To the President of Hebrew University, Dr. Horowitz presented a set of books on Canada.

Also, having returned to Canada, Dr. Horowitz chaired the annual meeting on 17 November of the Canadian Bureau of International Education in Toronto. At that time, he completed his two-year term as President of the Bureau. Associate Vice-President (Academic) Amy Zelmer, Director of Student Affairs Ruth Groberman, and Assistant Registrar Doug Burns also attended the meetings. Ruth Groberman was elected to the Board of the Bureau for a two-year term.

Baha Abu-Laban (Sociology) Bruce Bain (Educational Psychology), Ruth Groberman (Student Affairs) Manoly Lupul (Institute of Ukrainian Studies) were part of the Alberta delegation to The National Planning Council on Multicultural Education, Winnipeg. Papers were also presented: Abu-Laban, "The role of television and the implications for multiculturalism"; Bain, "Edmonton public schools and multicultural needs"; Groberman, "Intercultural communication, its role in the classroom;" Lupul "Discussant."

C. Hiruki (Plant Science) has been appointed to the Executive Committee of the Working Party on Mycoplasma Diseases of the International Union of Forest Research Organization (IUFRO). The committee is responsible for formulating collaborative work at the international level. Dr. Hiruki also presented invitational workshop papers entitled "Fluorescence microscopy in diagnosis of tree diseases associated with mycoplasma-like organisms" and "A simple method of preserving spiroplasma cultures and an analysis of factors affecting their viability" at the XVII IUFRO World Congress held recently in Kyoto, Japan.

Roy G. Barter (Library) is currently on leave in Australia. He is working with The XII Commonwealth Games (1982) Foundation Limited in the Village section at Griffith University in Brisbane, Queensland.

Alison Scott-Prelorantz (Germanic Languages) recently gave an invited paper, "Lessing's *Juden* in the Lessing-Jahr 1979: Erwin Sylvanus' Modern Sequel," during a session of the Lessing Society held in conjunction with the conference of the Midwest Modern Language Association in Oconomowoc, Wisconsin. In mid-October, Professor Prelorantz presented a paper at the annual meeting of the Canadian Association for Eighteenth Century Studies in Montreal, entitled "Lessing und kein Ende?"

A recent visitors to the University was Jerome D. Schein, Director of the Deafness Training and Research Centre and Professor

First Signs of April  
Hairy Scary  
I'll Dance at Your Wedding  
I Love You When You're Good  
Love Me and Leave Me  
No Comparison  
Queen for a Day  
Scratching Pole  
Secret of Little  
Spare the Rod  
Stacking the Deck  
There Comes a Time  
True Blue  
Two to Get Ready  
We Were Sad  
What's Cookin?  
Who is Sylvia? □

of Educational Psychology at New York University. The visit was sponsored by our Department of Educational Psychology and was funded in part by the Alberta Heritage Foundation for Medical Research. Dr. Schein delivered a public address entitled "A Rose for Tomorrow" on Monday, 30 November. There was also a lecture for Educational Psychology and Speech Pathology students, "Emotional Behavioral Problems in Deaf Students."

## publications

Dunae, P.A. (History): *Gentlemen Emigrants: From the British Public Schools to the Canadian Frontier*. Vancouver/Toronto: Douglas & McIntyre, 1981. ISBN 0-88894-324-5.

## service information

All information to be published under this rubric must be submitted to the Office of Community Relations no later than 9 a.m. the Thursday prior to publication.

### Coming Events

Limited space, dictated by budgetary considerations, compels us to exclude certain off-campus announcements for a time. We apologize to those of our readers affected by these measures. Please continue to submit your material,

with the assurance that it will appear when circumstances permit.

### Music

**Department of Music Concerts**  
6 December. 8 p.m. Woodwind and Brass Chamber Music.  
11 December. Noon. Festival of nine Lessons and Carols. The University of Alberta Mixed Chorus.  
13 December. 2 p.m. Talent Education.  
14 December. 8 p.m. The Debut Chamber Players.  
All above concerts in Convocation Hall, Old Arts Building.

### Jubilee Auditorium

4 and 5 December. 8 p.m. ESO Main Series A and B. Seagram Celebrity Concerts Strauss/Goldmark/Saint Saens.  
10 and 11 December. 8 p.m. Handel's *Messiah* with the Edmonton Symphony Orchestra and the Richard Eaton Singers. Tickets BASS.

### Lectures and Seminars

**Department of Entomology**  
3 December. 4:30 p.m. H.V. Danks on "Arthropod Habitats and Microhabitats: an overview of conditions in the sites that arthropods actually occupy and their significance in understanding the fauna." 62 Athabasca Hall. Annex Basement.

### Faculty of Extension

**Edmonton Public Library**  
4 December. 12:15 p.m. "Canada and the USSR." Speaker: T. Yedlin.  
11 December. 12:15 p.m. "Alberta's Foreign Relations" with M. Maduro, Alberta Department of Federal and Intergovernmental Affairs.  
All lectures in Music Room, Edmonton Public Library.

### Department of Forest Science Forest Industry Lectures

3 December. 3:30 p.m. Alvin Yanchuk on "Clonal variation of wood specific gravity and fibre length in trembling aspen." 849 GSB.

### Department of Zoology

4 December. 3 p.m. W. Veale, University of Calgary, on "Vasopressin: Its role in antipyresis and febrile convulsions."  
11 December. 3 p.m. Eric Butterworth (Zoology) on "Helminth communities in waterfowl." 345 Agriculture Building.

### Limnology and Fisheries

3 December. Noon. Ken Zelt, Alberta Fish and Wildlife, "Exploitation of walleye in Fawcett Lake." G 217 Biological Sciences Centre.

### History Colloquium

4 December. 3:05 p.m. H.E. Wilson on "Dogs, Drugs and Dynamite on the Thailand Malaysia Border." 2-58 H.M. Tory Building.

### Department of Anthropology

4 December. 3:30 p.m. Owen Beattie on "Skeletal remains from the last Sir John Franklin Expedition." 14-6 H.M. Tory Building.

### Department of Chemistry

#### Lab Safety Seminar

8 December. 1:30 to 4:30 p.m. Herbert Buchwald, Alberta Workers' Health, Safety and Compensation "Alberta's New Chemical Hazards Regulations." E1-60 Chemistry Centre.

### The Canadian Institute of

#### Ukrainian Studies

8 December. 12:30 p.m. John-Paul Himka on "The Greek Catholic Church and Ukrainian Society in Galicia, 1772-1918. 352C Athabasca Hall.

### Department of Botany

#### Boreal Circle

8 December. 8 p.m. Peter Nosko (Botany), with a slide presentation "An Arctic Summer," followed by two films. CW 410 Biological Sciences Centre.

### Faculty of Science

#### Science Dining Club

8 December. 6 p.m. J.G. Kaplan on "Fraud in Science." This talk will be followed by a buffet dinner. For reservations telephone Mrs. Arbuthnott, 432-4765.

### Department of Comparative

#### Literature

4 December. 2 p.m. Patricia Merivale, University of British Columbia, will speak on "The Endless Round: Joseph Heller and the Purgatorial Novel. Senate Chamber, Fine Arts Building.

### Exhibitions

#### Ring House Gallery

24 November to 18 December. The work of four Manitoba Printworkers; Eleanor Bond, Lew Colborne, Allan Geske and Steven Gouthro.  
3 to 18 December. The Christmas Show.

### SUB Art Gallery

1, 2, 3 and 4 December. 10 a.m. to 7 p.m. Christmas Craft Sale and Exhibition. For more information call 432-4547.

### Theatre

#### SUB Theatre

##### The Phoenix Theatre

15 to 24 December. 7:30 p.m. *Scrooge* a play by Warren Graves, adapted from Charles Dickens' *A Christmas Carol*. Tickets BASS.

### Faculté St. Jean

#### Theatre Français d'Edmonton

4, 5, 6, 11, 12 and 13 December. 8 p.m. *La Crique* (The Cove) by Guy Foissy. Information and reservations 469-0829.

### Studio Theatre

#### Corbett Hall

7 to 9 December, 8 p.m. *St. Mark's Gospel*, an eye-witness account with Christmas Music. For further information and tickets phone 426-4292.

### Sports

#### Swimming

5 December. 9 to 11:30 a.m. Heats, 5:30 to 8 p.m. Finals. 2nd Annual Golden Bear High School Invitational Meet. West Pool.

### Faculty Curling

The Faculty Curling Club has openings for individuals and teams to curl on Fridays at 5 p.m. at Royal Glenora. Greg Morrison (432-2206) can provide more information.

### Radio and Television

#### Department of Radio and Television

Programs broadcast on CKUA radio (580/AM/95FM)  
4 December. 7:30 p.m. "Paper Tyger"  
5 December. 7 p.m. University Concert Hall.  
7 December. 7 p.m. "Legal Maze" Tort Law II.  
9 December. 7 p.m. "Money's Worth" Investment Gifts.  
9 December. 7 p.m. "Extensions" News and Interviews on the many activities within the University's Faculty of Extension.  
11 December. 7:30 p.m. "Paper Tyger" Publishing.  
12 December. 7 p.m. "University Concert Hall" recorded music from Convocation Hall.  
14 December. 7 p.m. "Legal Maze" Tort Law III.  
16 December. 7 p.m. "Money's Worth" Wine choices.  
16 December. 7:30 p.m. "Extensions" News and Interviews on the many activities within the University's Faculty of Extension.  
18 December. 7:30 p.m. "Paper Tyger" What Literary Agents do.  
19 December. 7 p.m. "University Concert Hall" recorded music from Convocation Hall.  
21 December. 7 p.m. "Legal Maze" Consumer Bankruptcy.  
4 January. 7 p.m. "Legal Maze" Women as Victims, part 1.  
11 January. 7 p.m. "Legal Maze" Women as Victims, part II.

### Non-Credit Courses

#### Faculty of Extension

##### Improving Adult Instruction Using Videotape Feedback

Date: 11 December. Time: 9 a.m. to 4:30 p.m. Fee: \$85 (including luncheon).

##### Work Performance and Behavioral Health Problems

Date: 7 and 8 December. Time:

8:30 a.m. to 4:30 p.m. *Fee:* \$85 (inclusive of materials and luncheon).

#### **Planning Law**

*Date:* 7, 8 and 9 December. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$160 inclusive of materials and luncheon).

#### **So You Want To Computerize?**

*Date:* 8 December. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$100 inclusive of materials and luncheon).

#### **Employee Discipline and Complaint Handling**

*Date:* 9 and 10 December. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$195 (inclusive of materials and luncheons).

#### **Continuing Medical Education**

28 November. "Chronic Pain Management." 2-115 Clinical Sciences Building. 3 and 4 December. "Psychosocial Problems in Obstetrics and Gynecology." Misericordia Hospital. 5 December. Workshop on Contraceptive Technology. Westin Hotel. For registration and further information on these courses please contact The Director's Office Continuing Medical Education. 432-6346-7.

#### **Computing Services**

##### **Client Training Sessions**

Computing Services is taking registrations between 8:30 a.m. and noon for the following non-credit courses. For further information, please telephone Information Services at 432-2463 or come to 319 General Services Building.

##### **Efficient File Editing**

*Course number:* 477. *Date:* 8 and 10 December. *Time:* 10 a.m. to noon. *Fee:* \$10. *Prerequisites:* "MTS and Editor Fundamentals" course and a good working knowledge of the File Editor. *Place:* 327 GSB.

##### **Introduction to Computing**

*Course number:* 462. *Date:* 14 December. *Time:* 11 a.m. to 1 p.m. *Fee:* \$5. *Prerequisites:* No previous computing experience is required. *Place:* 351 GSB.

##### **MTS Overview**

*Course number:* 485. *Date:* 15 and 17 December. *Time:* 11 a.m. to 1 p.m. *Fee:* \$10. *Prerequisites:* MTS and Editor Fundamentals. *Place:* 328 GSB.

##### **MTS and Editor Fundamentals**

*Course number:* 470. *Date:* 16 and 18 December. *Time:* 11 a.m. to 1 p.m. *Fee:* \$10. *Prerequisites:* Introduction to Computing at the U of A or equivalent knowledge of MTS. *Place:* 351 GSB.

##### **Introduction to SPIRES**

*Course number:* 497. *Date:* 21 December. *Time:* 1 p.m. to 4 p.m. *Fee:* \$5. *Prerequisites:* MTS and Editor Fundamentals course and a good working knowledge of file editing and terminal use. *Place:* 328 GSB.

## **Notices**

### **Salary Supplement Scheme for Canadian Professors to Teach in Nigerian Universities**

A special fund has been established to provide salary supplements to professors who would be seconded by their home university in Canada to teach in Nigeria.

Applications are requested for open positions immediately available for professors in the following fields: Medicine and Veterinary Medicine Engineering and Technology Agriculture Basic Sciences Environmental Design Education Business Administration

Applicants should normally be Associate or full Professors, but consideration may be given to Assistant Professors in Medicine, Veterinary Medicine, Engineering and Technology.

Conditions of service shall include: (a) Nigerian salary, housing, medical benefit and return passage will be paid by the Nigerian university; furnished accommodation is provided at subsidized rate; (b) salary supplementation will be provided to cover the amount equal to the salary, including fringe benefits, which the professor would otherwise be receiving from the Canadian University; (c) The professor will normally teach in Nigeria for one year, or one semester in exceptional cases; and (d) Positions are now available.

Applications are to be sent to: Nigerian Universities Office 320 Queen Street, Suite 2210 Ottawa, Ontario K1R 5A3.

### **GFC Planning and Priorities Committee and Academic Development Committee**

The GFC Nominating Committee is seeking nominations for one faculty member to serve on the Planning and Priorities Committee and one faculty member to serve on the Academic Development Committee and as cross representative to the Planning and Priorities Committee.

In order to comply with GFC regulation that there shall be no more than one representative from any one faculty serving on these Committees, nominees for PPC should not be from the Faculties of Medicine, Arts, Science or Rehabilitation Medicine. Nominees to fill the vacancy on ADC should not be from the Faculties of Arts, Science, Law or Agriculture and Forestry.

The Nominating Committee is also seeking nominations for faculty members to serve on the General Appeals Committee Panel. The Committee on Admissions and Transfer, General Salaries and Promotions Committee, and the Undergraduate Scholarship Committee.

Would persons interested in serving on any of the above Committees, or who have suggestions for nominees,

please contact P.M. Plaskitt, Secretary GFC Nominating Committee, 2-1 University Hall as soon as possible.

### **Faculty Singles**

Faculty "singles" are invited to a wine and cheese party, Sunday, 13 December at 7 p.m. The party will take place at a residence in Windsor Park and the cost will be \$5 per person. Those interested should telephone 439-2970 or 433-0459 (evenings) by 11 December, so that adequate supplies might be purchased.

### **Santas Needed**

You can help spread Christmas cheer! New or used (but in excellent condition) children's clothes, toys, skates, hockey and sports equipment and games are being collected by the Office of Student Affairs to distribute to student parents on campus who are unable to afford Christmas presents for their children. Cash donations will be gratefully accepted and receipts issued for those who request them (cheques should be made payable to: "Santas Needed Fund"). Please bring or send your donations to the Office of Student Affairs, 225 Athabasca Hall (432-4145).

### **Santas Provided**

Each year the Office of Student Affairs collects cash donations, new and used (but in excellent condition) children's clothing, toys and sports equipment to distribute to student parents on campus who cannot afford Christmas presents for their children. If you require such assistance, please contact Ruth Groberman or Terry Krissie at 432-4145.

## **Surplus Equipment**

The equipment appearing in this column is available only to University Departments with University Administered Funds. For further information about the purchase of equipment or the disposal of any of your department's surplus equipment, contact Bonnie O'Dwyer or Roy Bennett, telephone 432-3208.

One Data General Nova 1200 computer c/w 4019 Data General Fixed Head Disk and one punch tape reader. One Kodak RA960 slide projector. For further information, E. Evason at 432-2986.

## **Positions Vacant**

### **Reference Librarians**

The University of Alberta Library requires two reference librarians in the Humanities and Social Sciences Library. Duties include provision of reference service, bibliographic instruction, and library orientation; liaison and collection development work with selected departments in the Humanities and Social Sciences; and on-line searching of data bases.

Professional library qualifications required. Previous reference and on-line searching experience preferred. A subject MA would be an asset.

Salary according to experience and qualifications. Excellent fringe benefits, removal grant. Applicants should send curriculum vitae, transcript of academic record, and the names of three references to: Bruce Peel, Chief Librarian, The University of Alberta, Edmonton, Alberta T6G 2J8. The University of Alberta is an equal opportunity employer. Deadline for receipt of applications is 15 January 1982.

### **Non-Academic Positions**

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 25 November 1981.

Clerk Typist II (\$970.59-\$1,161.75)—Fund Development Office; Office of the Comptroller; Sociology Clerk Steno II (\$970.59-\$1,161.75)—Surgery; Entomology; Botany Switchboard Operator (\$1,006.94-\$1,204.82)—Provincial Laboratory Senior Clerk (\$1,006.94-\$1,204.82)—Parking Services Senior Financial Records Clerk (\$1,080.97-\$1,304.43)—Printing Services Purchasing Clerk II (\$1,080.97-\$1,304.43)—Administrative Services Student Records Processing Clerk (\$1,080.97-\$1,304.43)—Agriculture and Forestry Clerk Typist III (\$1,080.97-\$1,304.43)—Administrative Services, English Senior Financial Records Clerk (\$1,080.97-\$1,304.43)—Printing Services Clerk Steno III (\$1,080.97-\$1,304.43)—Physics; Law, Mineral Engineering (2 positions); Obstetrics and Gynaecology Systems Control Clerk (\$1,117.33-\$1,358.28)—Administrative Services Secretary (\$1,204.82-\$1,475.40)—Fund Development Office Library Assistant II (\$1,204.82-\$1,475.40)—Faculté Saint Jean Administrative Clerk (\$1,204.82-\$1,475.40)—Technical Services; Office of the Comptroller Senior Control Clerk (\$1,358.28-\$1,673.30)—Fund Development Office Residence Community Patrol Worker (\$970.59-\$1,161.75)—Housing and Food Services Food Services Worker I (\$970.59-\$1,161.75)—Housing and Food Services Building Services Worker II (\$1,080.97-\$1,304.43)—Building Services (Physical Plant) Technical Assistant (\$1,117.33-\$1,358.28)—Design and Construction Programmer/Analyst III (Part-time) (\$1,084.35-\$1,352.90)—Psychology Food Services Worker III (\$1,161.75-\$1,417.51)—Housing and Food Services Animal Technician I (Term) (\$1,204.82-\$1,475.40)—Bioscience Animal Services

Technician I (\$1,204.82-\$1,475.40)—Paleontological Collections  
 Farm Technician I (\$1,204.82-\$1,475.40)—Animal Science  
 Chemical Technician I (\$1,204.82-\$1,475.40)—Chemistry  
 Biology Technician I (\$1,204.82-\$1,475.40)—Genetics  
 Building Services Worker III (\$1,204.82-\$1,475.40)—Physical Plant (Building Services)  
 Biochemistry Technician I/II (Trust/Term) (\$1,204.82-\$1,673.30)—Psychiatry  
 Food Services Worker IV (\$1,250.59-\$1,538.68)—Housing and Food Services  
 Draftsman I (\$1,250.59-\$1,538.68)—Design and Construction  
 Electronics Technician I (Trust) (\$1,304.43-\$1,604.63)—Physics  
 Maintenance Worker I (\$1,304.43-\$1,604.63)—Physical Plant  
 Building Services Worker IV (\$1,304.43-\$1,604.63)—Physical Plant  
 Computer Operator I (\$1,304.43-\$1,604.63)—Computing Services  
 Electronics Technician I/II (Term) (\$1,304.43-\$1,822.73)—Chemistry  
 Engineering Technologist I (\$1,304.43-\$1,604.63)—Physical Plant (Energy Management)  
 Electron Microscope Technician II (Trust) (\$1,358.28-\$1,673.30)—Anatomy  
 Animal Technician II (\$1,358.28-\$1,673.30)—Bioscience Animal Services  
 Security Officer I (\$1,358.28-\$1,673.30)—Campus Security  
 Facilities Planning Analyst IV (\$1,538.68-\$1,904.82)—Planning Office  
 Laboratory Technologist I (\$1,417.51-\$1,747.33)—Provincial Laboratory  
 Biochemistry Technologist I (Trust) (\$1,417.51-\$1,747.33)—Surgery, Psychiatry  
 Biochemistry Technologist I/II (Trust, Term) (\$1,417.51-\$1,986.93)—Genetics  
 Technologist I (Trust) (\$1,417.51-\$1,747.33)—McEachern Laboratory  
 Technologist I/II (Trust, Term) (\$1,417.51-\$1,986.93)—Genetics  
 Technologist I/II (Trust) (\$1,417.51-\$1,986.93)—Physiology  
 Dental Hygienist (Term) (\$1,475.50-\$1,822.73)—University Health Services  
 Electronics Technician II (\$1,475.40-\$1,822.73)—Chemistry  
 Art Technician Demonstrator (Term) (\$1,475.40-\$1,822.73)—Drama  
 Audio Visual Technician II (\$1,475.40-\$1,822.73)—Radio and Television  
 Electronics Technician II (\$1,475.40-\$1,822.73)—Physics  
 Biology Technician III (\$1,538.68-\$1,904.82)—Genetics  
 Applications Analyst (\$1,538.68-\$1,904.82)—Faculty of Extension  
 Administrative Assistant I (\$1,538.68-\$1,904.82)—Anatomy  
 Administrative Assistant I (\$1,538.68-\$1,904.82)—Agricultural Engineering  
 Interior Designer I (\$1,604.63-\$1,986.93)—Design and Construction  
 Technologist II (\$1,604.63-\$1,986.93)—Botany; Forest Science  
 Assistant Fire Marshall (\$1,673.30-\$2,077.14)—Physical Plant  
 Bacteriology Technologist III (\$1,822.73-\$2,264.26)—Medical Bacteriology

Engineering Technologist III (\$1,673.30-\$2,077.14)—Operations and Energy Management  
 Supervisor—Vehicle Pool (\$1,747.33-\$2,168.70)—Physical Plant—Vehicle Pool  
 Machinist Technician III (\$1,822.73-\$2,264.26)—Technical Services  
 Dental Technician III (\$1,747.33-\$2,168.70)—Faculty of Dentistry  
 Programmer/Analyst II (\$1,822.73-\$2,705.81)—Office of Administrative Systems  
 Programmer/Analyst II/III (\$1,822.73-\$2,705.81)—Applied Sciences in Medicine; Computing Services  
 Operations Supervisor (\$1,986.93-\$2,474.27)—Computing Services  
 Balancing/Commissioning Foreman (\$2,830.53)—Physical Plant

*The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board in the Cameron Library—Room 512 should be consulted for further information as to availability and position requirements.*

Library Assistant II (\$1,204.82-\$1,475.40)—Cataloguing; Acquisitions

## Advertisements

*Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 30 cents per word with no discount for subsequent insertions. There are no refunds. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an alteration is made. Advertisements cannot be accepted over the telephone.*

### Accommodations available

For sale—S.W. Below market value. \$119,000. Four bedroom bungalow, developed basement, double garage. Resi Richter 483-9432, 455-4135. Weber's.  
 For rent—Executive home, fully furnished, close to University. For one month only—February, 1982. \$1,000. Call evenings 435-2056.  
 For sale—Tall trees, smooth lawns. Completely developed home in Malmo. Comfortable walking distance to Southgate. Double garage. Call Earl Scoville 436-4488, A.E. LePage (Prairies) Ltd. 436-5080.  
 For rent—Fully furnished house, January to April 1982, west Capilano area. 466-4112.  
 Shared accommodations—Non-smoking professional female to share new home in Millwoods with nurse and oilfield consultant. Furnished room with ½ bath. \$265 month plus utilities. 462-5267.  
 For rent—River view, overlooking golf course. Ideal flat for professional person/couple. Close downtown, Exquisite decor. Three bedrooms,

sunroom, oak beams. \$780/month. By appointment only. 462-5267.  
 For rent—Cambridge, U.K. for 6 to 12 months. New house, 5 miles from downtown. \$550/month. (T)rusty, Morris Traveller available by arrangements. 436-9701.  
 To share—1 Feb. Responsible woman has large, two bedroom apartment for same. 432-2362, 439-0607.  
 For rent—Millwoods. Three bedroom bungalow. \$675. Dec. Close to all amenities. No pets. 462-7973.  
 For sale—Architect's home in Valleyview. Four bedroom, open beam bungalow in top condition, excellent financing, 15 minutes to University. Eva 484-2145, Spencer Real Estate.  
 For sale—Outstanding investment opportunity. 33 suite apartment building near downtown. Excellent price and financing. Call Binder Paul, Toole & Cote Real Estate Ltd., 437-4880, 462-7548.  
 For rent—Five bedroom home, 115 St. 77 Ave. Fireplace, sauna, double garage. \$1,100/month. 434-4906 evenings.  
 For sale—Belgravia home. \$138,000. \$91,000/14%. 434-4906 after 6 p.m.  
 For rent—3,800 sq. ft. executive home. 1 January 1982 Centrally located on quiet ravine property. Major appliances and some furniture. Negotiable. Must be seen. Call 425-0760 or 452-1563.

### Automobiles and others

1978 Toyota Ceclica GT. 5-speed, coupe, one owner, 25,000 miles, mechanically sound, immaculate body and interior. \$6,300. 432-4108 days, 439-6682 after 6 p.m.  
 1980 Volvo GL, A/C, cruise, AM/FM cassette, other options. 423-2311 ext. 305, 436-7937.

### Goods for sale

Mary Goulden Antiques. Gifts for Xmas, Ancient and Modern. 10437 142 St. 452-8549, 451-6320.  
 Antiques, collectables, fabric, Marian Centre Shop. 10528 98 St. Entrance and parking in rear. 10 a.m. - 4 p.m. Monday - Saturday. All items donated. Proceeds to poor.  
 Living room, dining room, kitchen furniture. 439-5136.  
 Francine Gravel lithos and others,

framed. Call Audrey after 7 p.m. 436-2932.

Ladies fox-paw coat, full-length, size medium. Excellent condition. \$850 firm. 452-2712 evenings.

Sheltie puppies, registered, 8 weeks old. \$275. 922-2878 after 6 p.m.

Purebred, yellow, Labrador puppies. Both parents registered. Excellent family pet. \$85. 432-2098, 672-7004 (Camrose).

Help! Three, young cats, living at Ring House Gallery need home or won't survive winter. M. Cooke 432-5834.

Tibetan rugs from private collection. Traditional designs and colors. 3x6 feet, \$450 to \$1,250. An original Christmas present and sound investment. Appreciate by appointment. 455-8019.

For sale—Metal shelving, Pacific Rattan dining suite, oak buffet, 5 piece bedroom grouping (white), 8 drawer chest, child's country ski set (8 years), assorted skates and toys. 487-1807 evenings.

### Services

Donnic Typing Services Ltd. Specializing in word processing. 301A 10454 Whyte Avenue. 432-1419.

Kozak Business Services: Complete typing service available. Student discount. #305, 9924 106 Street. 423-3068, 478-1885.

Calico Decorators. Interior/Exterior. Residential/commercial. Quality workmanship. Free estimates. Phone 436-6239.

Singing teacher, Eileen Turner. 439-4661. Typing on word processor. Call

Darlene 452-1074.

Word processing service/Typing school/ Photocopier/Typewriter rental/ Mark 9, 8919 112 St. HUB Mall, 432-7936.

For Life, Auto, Homeowner's, Renter's Insurance. Phone Jerry Moser. 468-1930.

Robert Gariepy, piano/theory lessons. 433-7238.

Aspen Salon De Conversations Française. Registration for winter classes. 435-4467.

Innovative nursery school for children 3-6. Natural food nutrition, creative dramatics, French language learning. Barbar's Children's Centre. 455-5522 evenings, 455-5710 days.

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